



ENTERED 1648

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/509,165A

DATE: 03/18/2002
 TIME: 15:08:05

Input Set : A:\34810.txt
 Output Set: N:\CRF3\03182002\I509165A.raw

4 <110> APPLICANT: Gray et al.
 6 <120> TITLE OF INVENTION: MACROPHAGE DERIVED CHEMOKINE (MDC), MDC ANALOGS, MDC
 7 INHIBITOR SUBSTANCES, AND USES THEREOF
 9 <130> FILE REFERENCE: 27866/34810
 11 <140> CURRENT APPLICATION NUMBER: 09/509,165A
 12 <141> CURRENT FILING DATE: 2000-06-12
 14 <150> PRIOR APPLICATION NUMBER: 09/067,447
 15 <151> PRIOR FILING DATE: 1998-04-28
 17 <150> PRIOR APPLICATION NUMBER: 08/939,107
 18 <151> PRIOR FILING DATE: 1997-09-26
 20 <150> PRIOR APPLICATION NUMBER: 08/660,542
 21 <151> PRIOR FILING DATE: 1996-06-07
 23 <150> PRIOR APPLICATION NUMBER: 08/558,658
 24 <151> PRIOR FILING DATE: 1995-11-16
 26 <150> PRIOR APPLICATION NUMBER: 08/479,620
 27 <151> PRIOR FILING DATE: 1995-06-07
 29 <160> NUMBER OF SEQ ID NOS: 46
 31 <170> SOFTWARE: PatentIn Ver. 2.0
 33 <210> SEQ ID NO: 1
 34 <211> LENGTH: 2923
 35 <212> TYPE: DNA
 36 <213> ORGANISM: Homo sapiens - human MDC cDNA
 38 <220> FEATURE:
 39 <221> NAME/KEY: CDS
 40 <222> LOCATION: (20)..(298)
 42 <220> FEATURE:
 43 <221> NAME/KEY: mat_peptide
 44 <222> LOCATION: (92)..(298)
 46 <400> SEQUENCE: 1
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 48 Met Ala Arg Leu Gln Thr Ala Leu Leu Val Val
 49 -20 -15
 51 ctc gtc ctc ctt gct gtg gcg ctt caa gca act gag gca ggc ccc tac 100
 52 Leu Val Leu Leu Ala Val Ala Leu Gln Ala Thr Glu Ala Gly Pro Tyr
 53 -10 -5 1
 55 ggc gcc aac atg gaa gac agc gtc tgc tgc cgt gat tac gtc cgt tac 148
 56 Gly Ala Asn Met Glu Asp Ser Val Cys Cys Arg Asp Tyr Val Arg Tyr
 57 5 10 15
 59 cgt ctg ccc ctg cgc gtg gtg aaa cac ttc tac tgg acc tca gac tcc 196
 60 Arg Leu Pro Leu Arg Val Val Lys His Phe Tyr Trp Thr Ser Asp Ser
 61 20 25 30 35
 63 tgc ccg agg cct ggc gtg gtg ttg cta acc ttc agg gat aag gag atc 244
 64 Cys Pro Arg Pro Gly Val Val Leu Leu Thr Phe Arg Asp Lys Glu Ile

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65          40          45          50
67 tgt gcc gat ccc aga gtg ccc tgg gtg aag atg att ctc aat aag ctg 292
68 Cys Ala Asp Pro Arg Val Pro Trp Val Lys Met Ile Leu Asn Lys Leu
69          55          60          65
71 agc caa tgaagagcct actctgatga ccgtggcctt ggctcctcca ggaaggetca 348
72 Ser Gln
74 ggagccctac ctccctgcc a ttatagctgc tccccgccag aagcctgtgc caactctctg 408
76 cattccctga tctccatccc tgtggctgtc acccttggtc acctcgtgc tgtcactgcc 468
78 atctcccccc tgacccctct aacccatcct ctgcctccct cctgcagtc agagggtcct 528
80 gttcccatca gcgattcccc tgcctaaacc ctccatgac tccccactgc cctaagctga 588
82 ggtcagtcct ccaagcctgg catgtggccc tctggatctg ggttccatct ctgtctccag 648
84 cctgcccact tcccttcatt aatgttgggt tctagctccc tgttctccaa acccatacta 708
86 cacatcccac ttctgggtct ttgcctggga tgttctgac actcagaaag tcccaccacc 768
88 tgcacatgtg tagccccacc agccctccaa ggcatgtgc gcccaagcag ctggtaatc 828
90 catttcatgt attagatgtc cctggccct ctgtccctc ttaataacc tagtcacagt 888
92 ctccgcagat tcttgggatt tgggggtttt ctccccacc tctccactag ttggaccaag 948
94 gtttctagct aagttaactct agtctccaa cctctagcat agagcactgc agacaggccc 1008
96 tggctcagaa tcagagccca gaaagtggct gcagacaaa tcaataaaac taatgtccct 1068
98 cccctctccc tgccaaaagg cagttacata tcaatacaga gactcaaggt cactagaaat 1128
100 gggccagctg ggtcaatgtg aagccccaaa ttgcccaga ttcacctttc tccccccact 1188
102 cccttttttt tttttttttt tttagatgg agtttctgctc ttgtcaccga cgctggagtg 1248
104 caatggtgtg gtcttggctt attgaagcct ctgcctcctg ggttcaagtg attctcttgc 1308
106 ctccagcctcc tgagtagctg ggattacagg ttccctgtac caccgccagc taatttttgt 1368
108 atttttagta gagacgaggc ttaccatgt tggccagget ggtctcgaac tctgtcctc 1428
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112 ctggcctctt cctctcccc actgcccccc ccaacttttt tttttttttt atggcagggt 1548
114 ctccactgtt cgcacaggct ggagtgcat ggctgcatct cggctcacta caacctcgac 1608
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118 tgccactacg gctggctaatt tttgtattt tttagtaga caggtttcac catattggcc 1728
120 aggctgggtct tgaactcctg acctcaagt atccaccttc cttgtgtctc caaagtgtctg 1788
122 agattacagg cgtgagctat cacacccagc ctcccccttt ttttctaat aggagactcc 1848
124 tgtacctttc ttogttttac ctatgtgtcg tgtctgttta catttccttc tcccctcagg 1908
126 ctttttttgg gtggctctcc aacctccaat acccaggcct ggctcttca gagtaccccc 1968
128 cattccactt tccctgcctc ctctcttaaa tagctgacaa tcaaattcat gctatggtgt 2028
130 gaaagactac ctttgacttg gtattataag ctggagttat atatgtattt gaaaacagag 2088
132 taaatactta agaggccaaa tagatgaatg gaagaatttt aggaactgtg agagggggac 2148
134 aagggtgaagc tttcctggcc ctgggaggaa gctggctgtg gtagcgtagc gctctctctc 2208
136 tctgtctgtg gcaggagcca aagagtaggg tgtaattgag tgaaggaaac ctgggtagag 2268
138 accattctca ggtggttggg ccaggctaaa gactgggagt tgggtctatc tatgcctttc 2328
140 tggctgattt ttgtagagac ggggttttgc catgttaccc aggctgggtct caaactcctg 2388
142 ggctcaagcg atcctcctgg ctccagcctcc caaagtgtct ggattacagg cgtgaatcac 2448
144 tgcgcctggc ttccctcttc tcttgagaaa tattcttttc atacagcaag tatgggacag 2508
146 cagtgtccca ggtaaaggac ataaatgtta caagtgtctg gtccctttctg agggaggctg 2568
148 gtgccgctct gcagggtatt tgaacctgtg gaattggagg aggccatttc actccctgaa 2628
150 cccagcctga caaatcacag tgagaatgtt caccttatag gcttgcctgtg gggctcagg 2688
152 tgaaagtgtg gggagtgaac ctgcctaggc atccagctca gtgtcatcca gggcctgtgt 2748
154 ccctcccgaa cccagggtca acctgcctgc cacaggcact agaaggacga atctgcctac 2808
156 tgcccatgaa cggggccctc aagcgtcctg ggatctcctt ctccctcctg tctgtcctt 2868
158 gcccctcagg actgctggaa aataaatcct ttaaaatagt aaaaaaaaaa aaaaaa 2923

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161 <210> SEQ ID NO: 2
162 <211> LENGTH: 93
163 <212> TYPE: PRT
164 <213> ORGANISM: Homo sapiens - human MDC
166 <400> SEQUENCE: 2
167 Met Ala Arg Leu Gln Thr Ala Leu Leu Val Val Leu Val Leu Leu Ala
168           -20           -15           -10
170 Val Ala Leu Gln Ala Thr Glu Ala Gly Pro Tyr Gly Ala Asn Met Glu
171           -5           -1    1           5
173 Asp Ser Val Cys Cys Arg Asp Tyr Val Arg Tyr Arg Leu Pro Leu Arg
174    10           15           20
176 Val Val Lys His Phe Tyr Trp Thr Ser Asp Ser Cys Pro Arg Pro Gly
177  25           30           35           40
179 Val Val Leu Leu Thr Phe Arg Asp Lys Glu Ile Cys Ala Asp Pro Arg
180           45           50           55
182 Val Pro Trp Val Lys Met Ile Leu Asn Lys Leu Ser Gln
183    60           65
186 <210> SEQ ID NO: 3
187 <211> LENGTH: 18
188 <212> TYPE: DNA
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer JHSP6
194 <400> SEQUENCE: 3
195 gacactatag aatagggc                                     18
198 <210> SEQ ID NO: 4
199 <211> LENGTH: 17
200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer M13
206 <400> SEQUENCE: 4
207 gtaaaacgac ggccagt                                     17
210 <210> SEQ ID NO: 5
211 <211> LENGTH: 20
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer T3.1
218 <400> SEQUENCE: 5
219 aattaaccct cactaaaggg                                     20
222 <210> SEQ ID NO: 6
223 <211> LENGTH: 22
224 <212> TYPE: DNA
225 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer T7.1
230 <400> SEQUENCE: 6
231 gtaatacgac tcactatagg gc                                     22

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Input Set : A:\34810.txt

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234 <210> SEQ ID NO: 7
235 <211> LENGTH: 35
236 <212> TYPE: DNA
237 <213> ORGANISM: Artificial Sequence
239 <220> FEATURE:
240 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer 390-1F
242 <400> SEQUENCE: 7
243 tctatctaga ggcccctacg gcgccaacat ggaag 35
246 <210> SEQ ID NO: 8
247 <211> LENGTH: 33
248 <212> TYPE: DNA
249 <213> ORGANISM: Artificial Sequence
251 <220> FEATURE:
252 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer 390-2R
254 <400> SEQUENCE: 8
255 caccggatcc tcattggctc agcttattga gaa 33
258 <210> SEQ ID NO: 9
259 <211> LENGTH: 29
260 <212> TYPE: DNA
261 <213> ORGANISM: Artificial Sequence
263 <220> FEATURE:
264 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer 390-4R
266 <400> SEQUENCE: 9
267 aatggatcca cagcacggag gtgaccaag 29
269 <210> SEQ ID NO: 10
270 <211> LENGTH: 31
271 <212> TYPE: DNA
272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
275 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer 390-3R
277 <400> SEQUENCE: 10
278 agtcaagctt agggcactct gggatcggca c 31
281 <210> SEQ ID NO: 11
282 <211> LENGTH: 45
283 <212> TYPE: DNA
284 <213> ORGANISM: Artificial Sequence
286 <220> FEATURE:
287 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer 390-FX2
289 <400> SEQUENCE: 11
290 tatcggatcc tggttccgcg tggcccctac ggcgccaaca tggaa 45
293 <210> SEQ ID NO: 12
294 <211> LENGTH: 22
295 <212> TYPE: DNA
296 <213> ORGANISM: Artificial Sequence
298 <220> FEATURE:
299 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer GEX5
301 <400> SEQUENCE: 12
302 gaaatccagc aagtatatag ca 22
305 <210> SEQ ID NO: 13

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Input Set : A:\34810.txt

Output Set: N:\CRF3\03182002\I509165A.raw

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306 <211> LENGTH: 36
307 <212> TYPE: DNA
308 <213> ORGANISM: Artificial Sequence
310 <220> FEATURE:
311 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer 390-Pel
313 <400> SEQUENCE: 13
314 attgccatgg ccggccccta cggcgccaac atggaa 36
317 <210> SEQ ID NO: 14
318 <211> LENGTH: 30
319 <212> TYPE: DNA
320 <213> ORGANISM: Artificial Sequence
322 <220> FEATURE:
323 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer 390RcH
325 <400> SEQUENCE: 14
326 gaccaagctt gagacataca ggacagagca 30
329 <210> SEQ ID NO: 15
330 <211> LENGTH: 29
331 <212> TYPE: DNA
332 <213> ORGANISM: Artificial Sequence
334 <220> FEATURE:
335 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer 390RcX
337 <400> SEQUENCE: 15
338 tggatctaga agttggcaca ggcttctgg 29
341 <210> SEQ ID NO: 16
342 <211> LENGTH: 20
343 <212> TYPE: DNA
344 <213> ORGANISM: Artificial Sequence
346 <220> FEATURE:
347 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer DC03
349 <400> SEQUENCE: 16
350 cgaaattaat acgactcact 20
353 <210> SEQ ID NO: 17
354 <211> LENGTH: 67
355 <212> TYPE: DNA
356 <213> ORGANISM: Artificial Sequence
358 <220> FEATURE:
359 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
360 390mycRX
362 <400> SEQUENCE: 17
363 tggatctaga tcaattcaag tcctcctcgc tgatcagctt ctgctcttgg ctcagcttat 60
365 tgagaat 67
368 <210> SEQ ID NO: 18
369 <211> LENGTH: 99
370 <212> TYPE: PRT
371 <213> ORGANISM: Homo sapiens - Hu MCP-3
375 <400> SEQUENCE: 18
376 Met Lys Ala Ser Ala Ala Leu Leu Cys Leu Leu Leu Thr Ala Ala Ala
377 -20 -15 -10
379 Phe Ser Pro Gln Gly Leu Ala Gln Pro Val Gly Ile Asn Thr Ser Thr

```

→ Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

DATE: 03/18/2002

PATENT APPLICATION: US/09/509,165A

TIME: 15:08:06

Input Set : A:\34810.txt

Output Set: N:\CRF3\03182002\I509165A.raw

L:609 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:615 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:1196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:1197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:1219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:1221 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:1223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:1225 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:1251 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:1377 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41